

## WHAT IS CLAIMED IS:

5 1. A method for running an electric energy storage system which is set up at an electric energy consumer and capable of controlling an electric energy to be purchased by the electric energy consumer by controlling charge and discharge, wherein a running pattern of charge and discharge of the electric energy storage system is previously programmed, and the run of the electric energy storage system is controlled on the basis of the previously programmed running pattern.

10 2. A method for running an electric energy storage system according to Claim 1, wherein the programmed running pattern is input in a computer-control means to control the run of the electric energy storage system by the computer-control means on the basis of the programmed running pattern.

15 3. A method for running an electric energy storage system according to Claim 1, wherein the running pattern is programmed so that a consumption rate of electric energy stored in the electric energy storage system becomes 80% or more.

20 4. A method for running an electric energy storage system according to Claim 1, wherein an electric fee is always optimized by observing information on purchase of electric power by the electric energy consumer with a communication means and giving instruction to correct running conditions of the electric power storage system.

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5. A method for running an electric energy storage system according to Claim 1, wherein a scale of the electric energy storage system to be introduced is determined so that an electric energy consumption peak is not generated by shaving the electric energy consumption peak in a time zone having the highest peak of electric energy consumption in a situation of electric energy consumption by the electric energy consumer by increasing an amount of consumable electric energy by discharge running of the electric energy storage system and by charge running of the electric energy storage system in the other time zones.

6. A method for running an electric energy storage system according to Claim 1, wherein a scale of the electric energy storage system to be introduced is determined so that an electric fee is reduced by increasing a rate of electric energy purchased by the electric energy consumer in a night time zone by discharge running of the electric energy storage system in a daytime zone and charge running of the electric energy storage system in a nighttime zone.

7. A method for running an electric energy storage system according to Claim 1, wherein the electric energy storage system is a system using a sodium sulfur battery.

8. A method for running an electric energy storage system which is set up at an electric energy consumer and capable of controlling an electric

energy to be purchased by the electric energy consumer by controlling charge and discharge, comprising the steps of:

- a. researching into conditions of electric energy consumption (purchased amount of electric energy) by the electric energy consumer for a predetermined period so as to be used as base data,
- b. researching into an electric fee system which is arranged by an electric energy supplier and which the electric energy consumer can use and investigate an effect on an electric fee by load-leveling to select the optimum electric fee system,
- c. determining a scale of the electric energy storage system to be introduced on the basis of a date set for a contract electricity before the electric energy storage system is introduced, conditions of electric energy consumption on the day having the maximum load, a day having the highest peak of the electric energy consumption, and a specification of the electric energy storage system expected to be introduced,
- d. determining a running program for discharging the electric energy storage system in a time zone for high consumption of electric energy and for a high unit fee for consumed electric energy so as to reduce a purchased amount of electric energy and for charging the electric energy storage system in a time zone for a low unit fee for consumed electric energy, and
- e. running the electric energy storage system on the basis of the running program.

9. A method for running an electric energy storage system according to

Claim 8, wherein the running program for the electric energy storage system is input to a computer-control means to run the electric energy storage system by the computer-control means on the basis of the running program.

5 10. A method for running an electric energy storage system according to Claim 8, wherein a scale of the electric energy storage system and the running program are determined so that a consumption rate of electric energy stored in the electric energy storage system becomes 80% or more.

10 11. A method for running an electric energy storage system according to Claim 8, wherein an electric fee is always optimized by observing information on purchase of electric power by the electric energy consumer with a communication means and giving instruction to correct running conditions of the electric power storage system.

15 12. A method for running an electric energy storage system according to Claim 8, wherein a scale of the electric energy storage system to be introduced is determined so that an electric energy consumption peak is not generated by shaving the electric energy consumption peak in a time zone having the highest peak of electric energy consumption in a situation of electric energy consumption by the electric energy consumer by increasing  
20 an amount of consumable electric energy by discharge running of the electric energy storage system and by charge running of the electric energy storage system in the other time zones.

25 13. A method for running an electric energy storage system according to Claim 8, wherein a scale of the electric energy storage system to be introduced is determined so that an electric fee is reduced by increasing a

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rate of electric energy purchased by the electric energy consumer in a night time zone by discharge running of the electric energy storage system in a daytime zone and charge running of the electric energy storage system in a nighttime zone.

- 5 14. A method for running an electric energy storage system according to Claim 8, wherein the electric energy storage system is a system using a sodium sulfur battery.

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